

What is claimed is:

1. An ink jet head comprising:

a nozzle tip comprising a front end surface in which a nozzle for jetting ink is provided, and four side surfaces adjacent to a back end surface which is opposite to the nozzle; and

a frame shape member on which the nozzle tip is mounted, the frame shape member comprising a first protrusion pair which abuts on one pair of facing sides of the four side surfaces to sandwich the nozzle tip, and a second protrusion pair which abuts on the other pair of facing sides of the four side surfaces to sandwich the nozzle tip.

2. The ink jet head of claim 1, wherein the nozzle tip comprises an electrode terminal on a central portion of the one pair of facing sides, and the first protrusion pair abuts on a portion of the one pair of facing sides on which no electrode terminal is provided to sandwich the nozzle tip.

3. The ink jet head of claim 1, wherein the frame shape member comprises an abutment portion on which the back end surface of the nozzle tip abuts.

4. The ink jet head of claim 1, wherein the

frame shape member comprises a first protrusion member and a second protrusion member on inner walls of both ends of the frame shape member, respectively, so as to face each other, the first protrusion member comprising the first protrusion pair and one protrusion of the second protrusion pair, the second protrusion member comprising the first protrusion pair and the other protrusion of the second protrusion pair.

5. The ink jet head of claim 4, wherein each of the first protrusion member and the second protrusion member further comprises an abutment portion on which the back end surface of the nozzle tip abuts.

6. The ink jet head of claim 5, wherein the first protrusion pair is arranged on the abutment portion perpendicularly.

7. The ink jet head of claim 5, wherein the second protrusion pair is arranged on the abutment portion perpendicularly.

8. The ink jet head of claim 1, wherein the frame shape member is made of at least one selected from aluminum, resin, magnesium and silver.

9. The ink jet head of claim 1, wherein the frame shape member is formed as one body by die-casting.

10. The ink jet head of claim 9, wherein the first protrusion pair and the second protrusion pair are formed by cutting process.

11. The ink jet head of claim 1, wherein the nozzle tip has a thin plate shape.

12. The ink jet head of claim 1, wherein the back end surface of the nozzle tip has a uniform width.

13. The ink jet head of claim 1, wherein a width of the back end surface of the nozzle tip is smaller than a width of the front end surface.

14. The ink jet head of claim 1, wherein a piezoelectric element of shear mode type is built in the ink jet head.

15. An ink jet printer comprising:
an ink jet head which comprises a nozzle tip comprising a front end surface in which a nozzle for jetting ink is provided and four side surfaces adjacent to a back end surface which is opposite to the nozzle,

and a frame shape member comprising a first protrusion pair which abuts on one pair of facing sides of the four side surfaces to sandwich the nozzle tip and a second protrusion pair which abuts on the other pair of facing sides of the four side surfaces to sandwich the nozzle tip, for mounting the nozzle tip; and

a carriage on which the ink jet head is mounted in a state pre-positioned.

16. The ink jet printer of claim 15, wherein the nozzle tip comprises an electrode terminal on a central portion of the one pair of facing sides, and the first protrusion pair abuts on a portion of the one pair of facing side on which no electrode terminal is provided to sandwich the nozzle tip.

17. The ink jet printer of claim 15, wherein the frame shape member comprises an abutment portion on which the back end surface of the nozzle tip abuts.

18. The ink jet printer of claim 15, wherein the frame shape member comprises a first protrusion member and a second protrusion member on inner walls of both ends of the frame shape member, respectively, so as to face each other, the first protrusion member comprising the first protrusion pair and one protrusion of the

second protrusion pair, the second protrusion member comprising the first protrusion pair and the other protrusion of the second protrusion pair.

19. The ink jet printer of claim 18, wherein each of the first protrusion member and the second protrusion member further comprises an abutment portion on which the back end surface of the nozzle tip abuts.

20. The ink jet printer of claim 19, wherein the first protrusion pair is arranged on the abutment portion perpendicularly.

21. The ink jet printer of claim 19, wherein the second protrusion pair is arranged on the abutment portion perpendicularly.

22. The ink jet printer of claim 15, wherein the frame shape member is made of at least one selected from aluminum, resin, magnesium and silver.

23. The ink jet printer of claim 15, wherein the frame shape member is formed as one body by die-casting.

24. The ink jet printer of claim 23, the first protrusion pair and the second protrusion pair are formed

by cutting process.

25. The ink jet printer of claim 15, wherein the nozzle tip has a thin plate shape.

26. The ink jet printer of claim 15, wherein the back end surface of the nozzle tip has a uniform width.

27. The ink jet printer of claim 15, wherein a width of the back end surface of the nozzle tip is smaller than a width of the front end surface.

28. The ink jet printer of claim 15, wherein a piezoelectric element of shear mode type is built in the ink jet head.